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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Name of Applicant: CATALYTIC DISTILLATION TECHNOLOGIES
Address of Applicant: 10100 Bay Area Boulevard
Pasadena, Texas 77507

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

REVOCATION AND SUBSTITUTION
OF POWER OF ATTORNEY UNDER 37 C.F.R. §1.36

Dear Sir:

Pursuant to 37 C.F.R. §1.36, CATALYTIC DISTILLATION TECHNOLOGIES, the applicant of the patent applications listed on the attached APPENDIX A, revokes all previous powers of attorney in the patent applications listed on the attached APPENDIX A, hereby appoints the following attorneys and/or agents assigned to the Customer Number listed below to prosecute the patent applications listed on the attached APPENDIX A, and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Customer Number 70312

Please direct all correspondence and telephone calls concerning the patent applications listed on the attached APPENDIX A to the address associated with Customer Number 70312.

Further, please change the attorney/docket number corresponding to the patent applications listed in APPENDIX A from the attorney/docket number on file to that indicated on APPENDIX A.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified applicant.

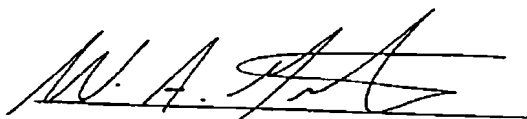
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The undersigned hereby declares that all statements made herein of the undersigned's own knowledge are true, that all statements made on information and belief are believed to be true, and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the patent applications listed on the attached APPENDIX A or any patents issuing thereon.

Signature:



Dated:

8 May 2007

Name:

Willibrord A. Groten

Title:

Managing Director

Catalytic Distillation Technologies

233793_1

APPENDIX A

1. **Patent Application/Serial No.:** 08/880,145
Title: ETHERIFICATION PROCESS
Filed: 06/20/1997
Assignee: Chemical Research & Licensing Co.
Reel/Frame No.: 8641/0208
Reference No: 17344/068002 (CDT 1523)

2. **Patent Application/Serial No.:** 10/699,712
Title: PROCESS FOR THE DESULFURIZATION OF LIGHT FCC NAPHTHA
Filed: 11/03/2003
Assignee: Catalytic Distillation Technologies
Reel/Frame No.: INSERT HERE
Reference No: 17344/135001 (CDT 1861)

3. **Patent Application/Serial No.:** 11/038,755
Title: ENERGY EFFICIENT METHOD AND APPARATUS FOR EXOTHERMIC REACTIONS
Filed: 01/19/2005
Assignee: Catalytic Distillation Technologies
Reel/Frame No.: 01602/0920
Reference No: 17344/137001 (CDT 1868/86)

APPENDIX A (cont'd)

4. **Patent Application/Serial No.:** 10/055,196
Title: PROCESS FOR THE UTILIZATION OF
REFINDERY C4 STREAMS
Filed: 01/23/2002
Assignee: Catalytic Distillation Technologies
Reel/Frame No.: 012532/0406
Reference No: 17344/113001 (CDT 1746)
5. **Patent Application/Serial No.:** 10/912,253
Title: PROCESS FOR THE UTILIZATION OF
REFINERY C4 STREAMS
Filed: 08/05/2004
Assignee: Catalytic Distillation Technologies
Reel/Frame No.: 012532/0406
Reference No: 17344/113002 (CDT 1746 Div)

242698_1 (Group 33)